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AD-A272 107



Draft



Department
of
Defense

DoD Electronic Data Interchange (EDI) Convention

ASC X12 Transaction Set 841
Specifications/Technical
Information (Furnish)
(Version 003030)



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This document was prepared by the Logistics Management Institute for the Under Secretary of Defense (Acquisition and Technology), Computer-aided Acquisition and Logistics Support and Electronic Data Interchange, under Task PL311. The task was performed under Contract MDA903-90-C-0006 with the Department of Defense. Permission to quote or reproduce any part of this document except for Government purposes must be obtained from the OSD(A&T) CALS/EDI.

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BASELINE AS OF: JULY 9, 1993

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1.0 INTRODUCTION

This chapter explains the purpose of the convention, and the scope of the guidance and provides an explanation of how to use the convention.

1.1 PURPOSE OF THE CONVENTION

The convention provides general guidance on the implementation of American National Standards Institute (ANSI) Accredited Standards Committee (ASC) X12 electronic data interchange (EDI) standards within automated information systems (AIS) and on information interchange procedures that require the collection, reporting, and/or exchange of data needed to perform defense missions.

1.2 SCOPE

The guidance presented here may be used by organizational elements of the DoD community and by non-DoD organizations that exchange data with the DoD community in the course of their business relationships.

The DoD community encompasses the Military Services, Organizations of the Joint Chiefs of Staff, Unified and Specified Commands, Office of the Secretary of Defense, and the Defense agencies. (That community is collectively referred to as the DoD Components).

Non-DoD organizations include (a) non-Government organizations, both commercial and nonprofit; (b) Federal agencies of the United States Government other than DoD; (c) local and state governments; (d) foreign national governments; and (e) international government organizations.

The draft convention published in this document is for trial use and comment. DoD Components must submit to the Office of the Under Secretary of Defense (Acquisition and Technology), Computer-aided Acquisition and Logistics Support and Electronic Data Interchange [OUSD (A & T) CALS/EDI] their data requirements that are not covered in this convention as soon as possible, as indicated in Chapter 2.0, Section 2.1.

1.3 RESPONSIBLE ENTITY

{Reserved}

1.4 HOW TO USE THE IMPLEMENTATION CONVENTION

The main topics and structures of this document conform to the *EDI Implementation Reference Manual Guidelines* document that was developed by a task group of the subcommittee on education and implementation of the ASC X12. The purpose of having

agreed-upon topics and structure is to facilitate reference by the many industry and DoD personnel who are involved in implementing the uniform standards for electronic interchange of business transactions.

1.4.1 Conventions, Standards, and Guidelines

The terms conventions, standards, and guidelines are used throughout this document and are defined as follows:

- *Conventions* are the common practices and/or interpretations of the use of ASC X12 standards. Conventions define what is included in a specific implementation of an ASC X12 standard.
- *Standards* are the technical documentation approved by ASC X12; specifically, transaction sets, segments, data elements, code sets, and interchange control structure. Standards provide the structure for each ASC X12 document.
- *Guidelines* are instructions on the use of EDI. They provide additional information to assist in conducting EDI. Guidelines are intended to provide assistance and should not be your sole source of information.

1.4.1.1 Who Develops the Conventions?

Conventions result from a joint effort by business, technical, and EDI ASC X12 standards experts. The business data requirement is defined, a transaction set is selected, and the data requirement is then identified with data elements in the transaction set. A convention is usually developed before any computer EDI systems development work and serves as a design document when the development process begins.

1.4.1.2 Why Use a Convention?

To create an ASC X12 transaction, a user must know the data requirements, understand the ASC X12 standard, and be able to use that information to develop an interface program between the computer application and the ASC X12 translator. The necessary information to perform that task is contained in the convention document. Users who follow the convention will create a transaction set that all DoD users understand.

1.4.1.3 Who Needs a Convention?

System analysts and application programmers who plan to create or read ASC X12 transactions use a convention to aid in interface software design. The convention will help the programmer and analyst identify where their application data requirement should be carried in an ASC X12 transaction set.

1.4.1.4 Can I Develop a Convention?

Conventions already exist for some of the most common business practices. Copies of existing conventions can be acquired through your organization's EDI coordinator at the start of an EDI project. If you find no conventions for the business practice you are about to implement, your EDI coordinator should contact the CALS

Evaluation and Integration Office. See Chapter 2.0, *Maintenance*, Section 2.1 for the point of contact.

1.4.2 Documentation of Conventions

Conventions are adopted from, and are intended to be in conformance with, ANSI ASC X12 standards or ASC X12 Draft Standards for Trial Use (DSTU).

1.4.2.1 Transaction Set

Figure 1.4-1 provides an example of a transaction set table. The transaction set defines information of business or strategic significance and consists of a transaction set header segment, one or more data segments in a specified order, and a transaction set trailer segment. The actual ASC X12 standard as it appears in the official ASC X12 standards manual is presented on the right side of the page. That standard also includes both syntax notes and comments. The specific DoD usage designator is presented on the left side of the page.

The designation "N/U" stands for "not used" and appears in the left column if DoD does not use the specific segment. A page number will appear if the segment is used.

1.4.2.2 Transaction Set Segment

Figure 1.4-2 is an example of a transaction set segment.

DoD usage is specified on the left side of the page. For identifier (ID)-type data elements, acceptable code values are listed on the right side of the page under the definitions of the element.

DoD notes, reflecting how the convention is to be used appear on the right side of the page at the segment level or the data element level.

The following definitions are for use in interpreting the data element requirement designators in the DoD-specific segment directory section of the convention. For ASC X12 usage, see the definitions in *X12.6 Application Control Structure*.

- *Mandatory*
Mandatory data elements are defined by ASC X12.
- *Optional*
Optional data elements are used at the discretion of the sending party or are based upon mutual agreement between trading partners.
- *Required*
Required data elements are considered optional under ASC X12 rules but are required by DoD decision.
- *Recommended*
Recommended data elements are considered optional under ASC X12 rules and by the DoD, but the industry recommends

824 Application Advice

This standard provides the format and establishes the data contents of the Application Advice Transaction Set (824) within the context of an Electronic Data Interchange (EDI) environment. This transaction set provides the ability to report the results of an application system's data content edits of transaction sets. The results of editing transaction sets can be reported at the functional group and transaction set level, in either coded or free-form format. It is designed to accommodate the business need of reporting the acceptance, rejection or acceptance with change of any transaction set. The Application Advice should not be used in place of a transaction set designed as a specific response to another transaction set (e.g., purchase order acknowledgement sent in response to a purchase order).

Table 1

PAGE #	POB #	SEQ. ID	NAME	REQ. DES.	MAX USE	LOOP REPEAT
2	010	ST	Transaction Set Header	M	1	
3	020	BGN	Beginning Segment	M	1	
LOOP ID - N1						2
4	030	N1	Name	O	1	
5	040	N2	Additional Name Information	O	2	
6	050	N3	Address Information	O	2	
7	060	N4	Geographic Location	O	1	
8	070	REF	Reference Numbers	O	12	
9	080	PER	Administrative Communications Contact	O	3	

Table 2

PAGE #	POB #	SEQ. ID	NAME	REQ. DES.	MAX USE	LOOP REPEAT
LOOP ID - OTI						10000
10	010	OTI	Original Transaction Identification	M	1	
12	020	REF	Reference Numbers	O	12	
13	030	DTM	Date/Time Reference	O	2	
N/U	040	PER	Administrative Communications Contact	O	3	
N/U	050	AMT	Monetary Amount	O	10	
N/U	060	QTY	Quantity	O	10	
LOOP ID - TED						10000
14	070	TED	Technical Error Description	O	1	
15	080	NTE	Note/Special Instruction	O	100	
16	090	SE	Transaction Set Trailer	M	1	

Figure 1.4-1 Example of a Transaction Set Table

824 - APPLICATION ADVICE
BGN - BEGINNING SEGMENT

ANSI ASC X12 VERSION/RELEASE 003010000

	Segment: BGN Beginning Segment				
	Level: Header				
	Loop: _____				
Mandatory	Usage: Mandatory				
	Max Use: 1				
	Purpose: To indicate the beginning of a transaction set				
	Syntax: If BGN05 is used, BGN04 is required.				
	Comments: 1. BGN02 is the Transaction Set Reference Number.				
	2. BGN03 is the Transaction Set Date				
	3. BGN04 is the Transaction Set Time.				
	4. BGN05 is the transaction set time qualifier.				
Data Element Summary					
	REF ID	DATA ELEMENT	NAME	ATTRIBUTES	
Mandatory	BGN01	353	Transaction Set Purpose Code Code identifying purpose of transaction set. 00 Original 01 Cancellation 04 Change 12 Not Processed	M	ID 2/2
Mandatory	BGN02	127	Reference Number Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier.	M	AN 1/30
Mandatory	BGN03	373	Date Date (YYMMDD).	M	DT 6/6
Conditional	BGN04	337	Time Time expressed in 24-hour clock time (HHMM, time range: 0000 though 2359).	C	TM 4/4
Implementation Note: Use HHMM.					
Not Used	BGN05	623	Time Code	O	ID 2/2

Figure 1.4-2 Example of a Transaction Set Segment

their use to facilitate EDI. Most companies in the industry are expected to use this data element.

- *Not Used*
"Not Used" data elements are those that DoD does not use.
- *Conditional*
Conditional data elements depend on the presence of other data elements in the transaction set.

2.0 MAINTENANCE

This chapter describes the procedures for maintaining the DoD conventions. It also presents a section on version/release timing.

2.1 MAINTAINING CONVENTIONS

{Reserved}

2.2 VERSION/RELEASE TIMING

Identification of the official "version" of a standard is critical to the successful interchange of information. Each participant must be able to send and receive the same version to ensure the accuracy of the information exchanged.

The version is transmitted as a 12-character code in the Functional Group Header segment (GS) in Data Element #480, Version/Release/Industry ID. This 12-character code is used by ASC X12 as follows:

<u>Position</u>	<u>Content</u>
1-3	Version number
4-5	Release level of version
6	Subrelease
7-12	DoD/Industry or Trade Association ID

ASC X12 assigns the codes in Position. 1 through 6.

The version number (001, 002, 003, etc.) will change only after an official public review cycle leads to republication of a new American National Standard.

The release level of each new major version (Positions 4-6 in the Functional Group Header) will begin at "000" and increased by 1 for each new ASC X12 approved publication cycle, usually once a year. The fourth and fifth characters designate the release and the sixth character designates the subrelease.

The DoD Industry Trade Association ID (Position 7-12) is used to identify conventions. For this suffix, DoD will use "DoD_" with the 10th character identifying successive publications. The 11th and 12th characters may be used by the Military Departments or Defense agencies.

DoD conventions for using ASC X12 standards are published annually. Conventions developed for each release will be maintained for 4 years. Military Services and DoD agencies will determine which release to use on the basis of business need but will not use any release more than 4 years old without approval by the OUSD (A & T) CALS/EDI.

3.0 DoD CONVENTIONS FOR USING ASC X12 TRANSACTION SETS

This chapter defines the DoD transaction set conventions. It includes the instructions for implementing the control structure and definitions of the usage indicators and applicable codes.

3.1 INTRODUCTION

The power of the ASC X12 standard is in its building block concept, which standardizes the essential elements of business transactions. The concept is analogous to a "standard bill of materials and the construction specifications," which gives the architect flexibility in what can be designed with standardized materials and procedures. The EDI system designer, like the architect, uses the ASC X12 standards to build business transactions that are often different because of their function and yet utilize the ASC X12 standards. The "bill of materials and the construction specification" of ASC X12 are the standards found in the published technical documentation.

ASC X12.3 – The *Data Element Dictionary* specifies the data elements used in the construction of the segments that comprise the transaction sets developed by ASC X12.

ASC X12.5 – The *Interchange Control Structure* provides the interchange control segment (also called an envelope) of a header and trailer for the electronic interchange through a data transmission; it also provides a structure to acknowledge the receipt and processing of the envelope.

ASC X12.6 – The *Application Control Structure* defines the basic control structures, syntax rules, and semantics of EDI.

ASC X12.22 – The *Data Segment Directory* provides the definitions and specifications of the segments used in the construction of transaction sets developed by ASC X12.

The DoD convention in Section 3.4 conforms to the above standards, and each transaction set is a complete document to the extent possible. For further clarification of acronyms, abbreviations, and codes, refer to ASC X12 published technical documentation. For copies, contact either the OUSD (A & T) CALS/EDI or the Data Interchange Standards Association, Inc., Suite 355, 1800 Diagonal Road, Alexandria, VA 22314.

3.2 CONTROL SEGMENTS

In addition to the communication control structure, the EDI structure provides the standards user with multiple levels of control to ensure data integrity. It does so by using header and trailer control segments

designed to identify uniquely the start and end of the interchange functional groups and transaction sets. The relationship of these control segments is shown in Figure 3.2-1. Control Segment specifications are defined in Section 3.2.2.

3.2.1 Description of Use

The interchange header and trailer segments surround one or more functional groups or interchange-related control segments and perform the following functions:

- Define the data element separators and data segment terminators
- Identify the sender and receiver
- Provide control information
- Allow for authorization and security information.

The Interchange Acknowledgment Segment is used to acknowledge one interchange header and trailer envelope where the envelope surrounds one or more functional groups. (No acknowledgment is made for the interchange acknowledgment.)

The interchange control number value in the acknowledgment (TA1 segment) is the same as that for the ISA segment that is being acknowledged. The control number serves as a link between the interchange header and trailer and the acknowledgment of that header and trailer.

The interchange acknowledgment does not report any status on the functional groups contained in the interchange and is separate from the communication system's error procedures.

The preparer of the interchange header and trailer indicates the level of acknowledgment in Data Element 113, Acknowledgment Requested. If an acknowledgment is requested, then the recipient must return an acknowledgment. If not requested, none should be given.

The interchange acknowledgment control segments are placed after the interchange header and before the first functional group or before the interchange trailer if there are no functional groups.

Control segments are standard for all implementation conventions produced for the Department of Defense. Some codes associated with individual data elements within the control segments are unique to the individual transaction set. Others, identify the ANSI version and release in which the convention is written.

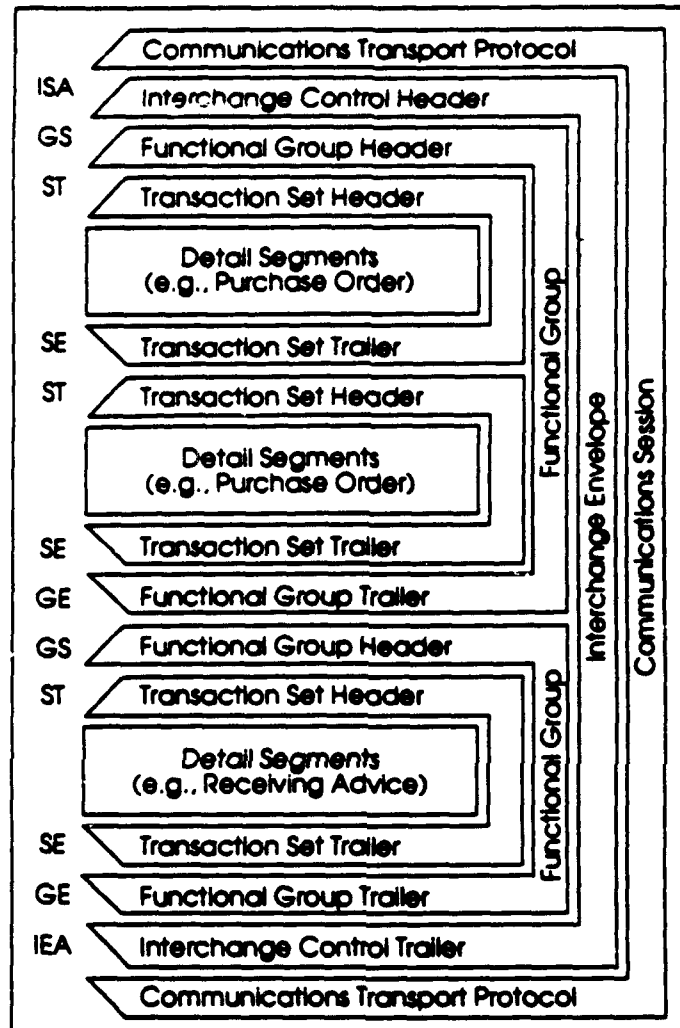


Figure 3.2-1. Hierarchical Structure

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ANSI ASC X12 VERSION/RELEASE 003030DOD_

3.2.2 Control Segment Specifications

001 - CONTROL SEGMENTS
ISA - INTERCHANGE CONTROL HEADER

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ANSI ASC X12 VERSION/RELEASE 003030DOD

Segment: ISA Interchange Control Header

Purpose: To start and identify an interchange of one or more functional groups and interchange-related control segments.

Data Element Summary

	REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
Mandatory	ISA01	I01	Authorization Information Qualifier Code to identify the type of information in the Authorization Information. 00 No Authorization Information Present (No Meaningful Information in I02)	M ID 2/2
Mandatory	ISA02	I02	Authorization Information Information used for additional identification or authorization of the sender or the data in the interchange. The type of information is set by the Authorization Information Qualifier.	M AN 10/10
Implementation Note: If no authorization information is agreed to by trading partners, fill field with blanks.				
Mandatory	ISA03	I03	Security Information Qualifier Code to identify the type of information in the Security Information. 01 Password	M ID 2/2
Mandatory	ISA04	I04	Security Information This is used for identifying the security information about the sender or the data in the interchange. The type of information is set by the Security Information Qualifier.	M AN 10/10
Implementation Note: An agreed upon password. If no security information is agreed to by trading partners, fill field with blanks.				
Mandatory	ISA05	I05	Interchange ID Qualifier Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified. ZZ Mutually Defined	M ID 2/2
Code Value Implementation Note: An agreed upon designation of DoD Activity Address Code (DoDAAC) or other code coordinated with the value-added network (VAN).				
Mandatory	ISA06	I06	Interchange Sender ID Identification code published by the sender for other parties to use as the receiver ID to route data to them. The sender always codes this number in the sender ID element.	M ID 15/15
Implementation Note: Department of Defense activities use DoD Activity Address Code (DoDAAC) or other code coordinated with the value-added network (VAN). Non-DoD activities use identification code qualified by ISA05 and coordinated with the VAN.				
Mandatory	ISA07	I05	Interchange ID Qualifier Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified. ZZ Mutually Defined	M ID 2/2

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001 - CONTROL SEGMENTS
ISA - INTERCHANGE CONTROL HEADER

		Code Value Implementation Note: <i>An agreed upon designation of DoD Activity Address Code (DoDAAC) or other code coordinated with the value-added network (VAN).</i>		
Mandatory	ISA08	I07	Interchange Receiver ID Identification code published by the receiver of the data. When sending, it is used by the sender as their sending ID, thus other parties sending to them will use this as a receiving ID to route data to them.	M ID 15/15
			Implementation Note: <i>Department of Defense activities use DoD Activity Address Code (DoDAAC) or other code coordinated with the value-added network (VAN). Non-DoD activities use identification code qualified by ISA05 and coordinated with the VAN.</i>	
Mandatory	ISA09	I08	Interchange Date Date of the interchange.	M DT 6/6
			Implementation Note: <i>Assigned by translation software. YYMMDD</i>	
Mandatory	ISA10	I09	Interchange Time Time of the interchange.	M TM 4/4
			Implementation Note: <i>Assigned by translation software. HHMM</i>	
Mandatory	ISA11	I10	Interchange Control Standards Identifier Code to identify the agency responsible for the control standard used by the message that is enclosed by the interchange header and trailer. U U.S. EDI Community of ASC X12, TDCC, and UCS	M ID 1/1
Mandatory	ISA12	I11	Interchange Control Version Number This version number covers the interchange control segments and the functional group control segments. 00303 Draft Standard for Trial Use Approved for Publication by ASC X12 Procedures Review Board Through October 1992	M ID 5/5
			Code Value Implementation Note: <i>Version ID as defined or agreed upon by the trading partners.</i>	
Mandatory	ISA13	I12	Interchange Control Number This number uniquely identifies the interchange data to the sender. It is assigned by the sender. Together with the sender ID it uniquely identifies the interchange data to the receiver. It is suggested that the sender, receiver, and all third parties be able to maintain an audit trail of interchanges using this number.	M NO 9/9
Mandatory	ISA14	I13	Acknowledgment Requested Code sent by the sender to request an interchange acknowledgment. 0 No Acknowledgment Requested 1 Interchange Acknowledgment Requested	M ID 1/1
Mandatory	ISA15	I14	Test Indicator Code to indicate whether data enclosed by this interchange envelope is test or production. P Production Data T Test Data	M ID 1/1

001 • CONTROL SEGMENTS
ISA • INTERCHANGE CONTROL HEADER

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Code Value Implementation Note:
Assigned by translation software.

Mandatory

ISA16 I15 Subelement Separator M AN 1/1
This is a field reserved for future expansion in separating data element subgroups. (In the interest of a migration to international standards, this should be different from the data element separator).

Implementation Note:
Use character "<".

Segment: GS Functional Group Header

Purpose: To indicate the beginning of a functional group and to provide control information

Syntax: The data interchange control number (GS06) in this header must be identical to the same data element in the associated Functional Group Trailer (GE02).

Comment: A functional group of related transaction sets, within the scope of X12 standards, consists of a collection of similar transaction sets enclosed by a functional group header and a functional group trailer.

Data Element Summary

	REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
Mandatory	GS01	479	Functional Identifier Code Code identifying a group of application related Transaction Sets.	M ID 2/2
	Implementation Note: Choose the code value appropriate to the information content of the functional group. See X12 Dictionary for source code list. SP Specifications/Technical Information (841)			
Mandatory	GS02	142	Application Sender's Code Code identifying party sending transmission. Codes agreed to by trading partners.	M AN 2/15
	Implementation Note: Department of Defense activities use DoD Activity Address Code (DoDAAC). Non-DoD activities use identification code assigned by DoD activity. For increased security, non-DoD code should differ from that used in ISA06.			
Mandatory	GS03	124	Application Receiver's Code Code identifying party receiving transmission. Codes agreed to by trading partners.	M AN 2/15
	Implementation Note: Department of Defense activities use DoD Activity Address Code (DoDAAC). Non-DoD activities use identification code assigned by DoD activity. For increased security, non-DoD code should differ from that used in ISA08.			
Mandatory	GS04	373	Date Date sender generated a transaction set.	M DT 6/6
Mandatory	GS05	337	Time Time expressed in 24-hour clock time.	M TM 4/6
Mandatory	GS06	28	Group Control Number Assigned number originated and maintained by the sender.	M NO 1/9
	Implementation Note: Assigned by translation software.			
Mandatory	GS07	455	Responsible Agency Code Code used in conjunction with Data Element 480 to identify the issuer of the standard.	M ID 1/2
	X Accredited Standards Committee X12			

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001 • CONTROL SEGMENTS
GS • FUNCTIONAL GROUP HEADER

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Mandatory	Code Value Implementation Note: <i>Indicates that an ANSI X12 standard is being transmitted.</i>		
	GS08	480	Version/Release/Industry ID Code M ID 1/12 Code indicating the version, release, subrelease and industry identifier of the EDI standard being used. Positions 1-3, version number; positions 4-6, release and subrelease level of version; positions 7-12, industry or trade association identifier (optionally assigned by user). 003030 Draft Standards Approved by ASC X12 Through October 1992. Code Value Implementation Note: <i>Code value agreed to by trading partners. See X12 Dictionary for source code list.</i>

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001 - CONTROL SEGMENTS
GE - FUNCTIONAL GROUP TRAILER

Segment: GE Functional Group Trailer

Purpose: To indicate the end of a functional group and to provide control information

Syntax: The data interchange control number (GE02) in this trailer must be identical to the same data element in the associated Functional Group Header (GS06).

Comment: The use of identical data interchange control numbers in the associated functional group header and trailer is designed to maximize functional group integrity. The control number is the same as that used in the corresponding header.

Data Element Summary

	REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES		
Mandatory	GE01	97	Number of Transaction Sets Included	M	NO	1/6
			Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element.			

Implementation Note:

Assigned by translation software.

Mandatory	GE02	28	Group Control Number	M	NO	1/9
			Assigned number originated and maintained by the sender.			

Implementation Note:

Assigned by the translation software. This control number must match the control number of the preceding GS06 control number.

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IEA • INTERCHANGE CONTROL TRAILER

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Segment: IEA Interchange Control Trailer

Purpose: To define the end of an interchange of one or more functional groups and interchange-related control segments.

Data Element Summary

	REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES		
Mandatory	IEA01	I16	Number of Included Functional Groups A count of the number of functional groups included in a transmission.	M	N0	1/5
Implementation Note: <i>Assigned by translation software.</i>						
Mandatory	IEA02	I12	Interchange Control Number This number uniquely identifies the interchange data to the sender. It is assigned by the sender. Together with the sender ID it uniquely identifies the interchange data to the receiver. It is suggested that the sender, receiver, and all third parties be able to maintain an audit trail of interchanges using this number.	M	N0	9/9

Implementation Note:
Assigned by the translation software. This control number must match the number that occurs in ISA13.

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3 EXAMPLE OF CONVENTION USE

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EXAMPLE - SPECIFICATIONS/TECHNICAL INFORMATION
841 TRANSACTION SET (FURNISH)

ASC X12 EDI FORMAT

DEFINITION

ST*841*0001	This is an 841 transaction set with a control number of 0001.
SPI*93*TN*841FUR001****00*ER*06 n/l	The data being provided have a government classification of secret (Code 93) and a commercial protection level of company proprietary (Code 06). The transaction set reference number (Code TN) is 841FUR001. This is an original transmission (Code 00) of an Engineering Change Proposal (Code ER).
REF*CT*N0001992C1357 n/l	The contract number (Code CT) to which this ECP pertains is N0001992C1357.
DTM*092*920214 n/l	The contract date (Code 092) is February 14, 1992.
REF*39*MDAC789 n/l	The ECP proposal (Code 39) number is MDAC789.
DTM*ZZZ*930709 n/l	The date of the ECP proposal (Code ZZZ) is July 9, 1993.
N1*SE**33*MD1234 n/l	The selling party (Code SE) is identified by CAGE code (code 33) MDMD1234.
N1*BY**10*N00019 n/l	The buying activity (Code BY) is identified by DoDAAC (Code10) N00019.
PER*IC*Jodie Foster*TE*7143456789 n/l	The point of contact (Code IC) at the originator's activity is Jodie Foster. Her telephone number (Code TE) is 714-345-6789.
HL*1**A*0 n/l	This is the first iteration of the HL Loop as specified by the number 1. It has no parent. The hierarchical level is the assembly (Code A). It has no subordinate level (Code 0).
SP1*93*DG*MDAC9DW789***J***06 n/l	The drawing (Code DG) number is MDAC9DW789. The drawing is being proposed (Code J) by one trading partner to another. It is classified government secret (Code 93) and has a commercial protection level of company proprietary (Code 06).
LIN**F7*RGM84*FS*3790012345678*PD *Altimeter n/l	The end item application (Code F7) reference number is RGM84. The national stock number (Code FS) is 3790012345678. The item description is Altimeter.
N1*ZE**33*HW9876 n/l	The manufacturer (Code ZE) of the assembly has a CAGE code (Code 33) of HW9876

MSG*The proposed change adds a mounting bracket at the rear of the assembly n/l

Free form text related to the data item.

EFI*93**9N*3.3*TrunkCAD*3.2*MIL-R-28002*3.3*TRIM*AH*DRAW n/l

The data provided in the BIN segment are classified government secret (Code 93). The security technique (Code 9N) is encryption. It was created using an application program known as TrunkCad, Version 3.3. The transfer format used is Raster (MIL-R-28002), Version 3.2. The file was compressed using the TRIM program, Version 3.3. The drawing size to be plotted is 8.5 inches x 11.0 inches (Code AH). The name of the file containing this data is DRAW.

BIN*110908* ____ n/l

The binary data transmitted are 110908 octets in length.

SE*17*0001

This transaction set, whose control number is 0001, consists of 17 segments.

841 • FURNISH

ANSI ASC X12 VERSION/RELEASE 003030DOD

3.4 DoD CONVENTION

841 Specifications/Technical Information

This Draft Standard for Trial Use contains the format and establishes the data contents of the Specifications/Technical Information Transaction Set (841) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to transmit specifications or technical information between trading partners. It can be used to allow EDI trading partners the ability to exchange a complete or partial technical description of a product, process, service, etc. over the same path as any other EDI transaction. The detail area can include graphic, text, parametric, tabular, image, spectral, or audio data. A transmission includes identification information to assist the receiver in interpreting and utilizing the information included in the transaction.

Further action as a consequence of the receipt and initial processing of the specification or other technical data may or may not require human intervention. The transmission and receipt of the data may require private agreement between the trading partners to automate the receipt of the data.

The total transaction must be in the general form of all ASC X12 transactions so that an EDI computer system will be able to automatically recognize it as a Specification/Technical Information Transaction Set and pass it on for processing of the data itself. The transaction set is not media dependent.

The detail area of the Specification/Technical Information Transaction Set provides a structure which allows for the exchange of a variety of specification information. For example, if the transaction contains information describing a complete assembly, it would be necessary to include the assembly model, the models for each of the individual parts, and the associated specifications. In the case of a process it may be necessary to transmit the specification of the product along with the specifications of the process and raw materials. This transaction set can also be linked to other transaction sets.

This transaction set is not limited to a specific transmission protocol and uses other standards as applicable where they do not conflict with these requirements for specification transaction.

Implementation Note

This draft implementation convention is designed to permit the transmission of specifications/technical information in binary form between government facilities and between government and contractor facilities.

Table 1

PAGE #	POS. #	SEG. ID	NAME	REQ. DES.	MAX USE	LOOP REPEAT
5	010	ST	Transaction Set Header	M	1	
		LOOP ID - SPI				>1
6	020	SPI	Specification Identifier	M	1	
N/U	030	RDT	Revision Date/Time	O	>1	
8	040	NTE	Note/Special Instruction	O	>1	
N/U	050	X1	Export License	O	1	
N/U	060	X2	Import License	O	1	
N/U	070	X7	Customs Information	O	1	
N/U	080	GOV	Military Standard 1840-A Record Definition	O	>1	
		LOOP ID - SPI/REF				>1
9	090	REF	Reference Numbers	O	1	
10	100	DTM	Date/Time Reference	O	>1	
N/U	110	PER	Administrative Communications Contact	O	>1	
		LOOP ID - SPIN1				>1
11	120	N1	Name	O	1	

DEPARTMENT OF DEFENSE
DRAFT IMPLEMENTATION CONVENTION

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12	130	N2	Additional Name Information	O	2
13	140	N3	Address Information	O	2
14	150	N4	Geographic Location	O	1
N/U	160	REF	Reference Numbers	O	>1
15	170	PER	Administrative Communications Contact	O	>1

Table 2

PAGE #	POS. #	SEG. ID	NAME	REQ. DES.	MAX USE	LOOP REPEAT
			LOOP ID - HL			>1
16	010	HL	Hierarchical Level	M	1	
			LOOP ID - HL/SPI			>1
18	020	SPI	Specification Identifier	O	1	
20	030	RDT	Revision Date/Time	O	>1	
22	040	LIN	Item Identification	O	1	
26	045	N1	Name	O	>1	
27	050	MSG	Message Text	O	>1	
			LOOP ID - HL/PID			>1
N/U	060	PID	Product/Item Description	O	1	
N/U	065	PKD	Packaging Description	O	>1	
N/U	070	QTY	Quantity	O	>1	
N/U	074	MEA	Measurements	O	>1	
N/U	075	UIT	Unit Detail	O	>1	
N/U	076	LOC	Location	O	1	
N/U	077	PWK	Paperwork	O	>1	
			LOOP ID - HL/PID/PKG			>1
N/U	078	PKG	Marking, Packaging, Loading	O	1	
N/U	079	MEA	Measurements	O	>1	
			LOOP ID - HL/REF			>1
N/U	080	REF	Reference Numbers	O	1	
N/U	090	DTM	Date/Time Reference	O	>1	
N/U	100	PER	Administrative Communications Contact	O	>1	
			LOOP ID - HL/LX			>1
N/U	109	LX	Assigned Number	O	1	
N/U	110	MEA	Measurements	O	1	
N/U	120	DTM	Date/Time Reference	O	>1	
N/U	130	REF	Reference Numbers	O	>1	
			LOOP ID - HL/EFI			>1
30	140	EFI	Electronic Format Identification	O	1	
N/U	150	GOV	Military Standard 1840-A Record Definition	O	>1	
32	160	BIN	Binary Data	O	>1	
			LOOP ID - HL/CID			>1
N/U	170	CID	Characteristic/Class ID	O	1	
N/U	180	UIT	Unit Detail	O	1	
N/U	190	TMD	Test Method	O	>1	
N/U	200	PSD	Physical Sample Description	O	1	
N/U	201	CSS	Conditional Sampling Sequence	O	1	
N/U	210	SPS	Sampling Parameters for Summary Statistics	O	1	
N/U	220	MSG	Message Text	O	>1	
			LOOP ID - HL/CID/MEA			>1
N/U	230	MEA	Measurements	O	1	

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N/U	240	DTM	Date/Time Reference	O	>1
N/U	250	REF	Reference Numbers	O	>1
LOOP ID - HL/CID/STA					
N/U	260	STA	Statistics	O	1
N/U	270	DTM	Date/Time Reference	O	>1
N/U	280	REF	Reference Numbers	O	>1
LOOP ID - HL/CID/CSF					
N/U	282	CSF	Conditional Sampling Frequency	O	1
N/U	283	LS	Loop Header	O	1
LOOP ID - HL/CID/CSF/CID					
N/U	284	CID	Characteristic/Class ID	O	1
N/U	285	MEA	Measurements	O	1
N/U	286	STA	Statistics	O	1
N/U	287	LE	Loop Trailer	O	1
LOOP ID - HL/CID/EFI					
N/U	290	EFI	Electronic Format Identification	O	1
N/U	300	GOV	Military Standard 1840-A Record Definition	O	>1
N/U	310	BIN	Binary Data	O	>1

Table 3

PAGE #	POS. #	SEG. ID	NAME	REQ. DES.	MAX USE	LOOP REPEAT
28	010	SE-	Transaction Set Trailer	M	1	

NOTES:

- 2/010** To be meaningful, at least one of the SPI, PID, REF, MEA, EFI or CID loops must be present with each occurrence of the HL loop.
- 2/020** The HL segment may be used to define the hierarchical relationship of product-related specifications reported in the associated HL loop. Product-related specifications may refer to the product in its entirety or to subunits of the product. For example, if the top level refers to an assembly, the second-level HL segment may refer to parts or subassemblies of the top assembly. This pattern may be repeated as often as required.
- 2/170** The CID segment may be used to define either a general class of properties, such as physical properties, or an individual property within a class. The CID loop allows the user the ability to define specifications such as the properties of the item or class, the environmental conditions under which the specifications apply, the test methods to be used, and other parameters related to properties within the current HL hierarchical level.
- 2/201** The sampling sequence specified in the CSS segment will take precedence over any other sampling rate (PSD03, PSD09, SPS06, CSF02, and CSF03) from the point the CSS01 event occurs until the specified sequence is completed.
- 2/201** If no other sampling is specified, then only the sampling indicated in this segment is performed when the CSS01 event occurs.
- 2/282** The sampling rate specified is the CSF segment. It would take precedence over the normal sampling rate specified in PSD03 while the conditions of the CSF segment are satisfied, but would NOT take precedence over the sampling sequence activated by the proposed CSS segment.

- 2/282** If no other sampling rate is specified, then the only sampling indicated in the CSF segment is performed while the CSF conditions are met. Sampling will cease when the conditions are no longer met.
- 2/282** Conditional values specified in DE 740 (Range Minimum) will be interpreted as "greater than or equal to this value." Values specified in DE 741 (Range Maximum) will be interpreted to mean "less than or equal to this value."
- 2/282** Repetitions of the CSF loop allow several frequency changes (and the conditions that would trigger those changes) to be specified.
- 2/282** If the conditions are such that several CSF values are activated at the same time, the value with the highest sampling rate shall prevail.
- 2/284** Either the MEA segment or the STA segment must occur, but not both.
- 2/284** The CID loop within the CSF loop is used to specify the conditions that will trigger activation of the conditional value in the CSF segment.
- 2/284** Repetitions of the CID loop will have an implied logical AND between the conditions set in each iteration.
- 2/285** The elements of the CID segment identify the conditional property. If the property is a measurement from within the manufacturing process of a plant environment, rather than the product, the segment also identifies the location where the measurements are to be observed.
- 2/286** If the condition is based on single test measurements, the MEA segment is used to specify the units of measure, and the open or closed numeric range of the conditional test.

841 - FURNISH
ST - TRANSACTION SET HEADER

ANSI ASC X12 VERIOSN/RELEASE 003030DOD

Segment: **ST** Transaction Set Header
Level: Header
Loop: ____
Usage: Mandatory
Max Use: 1
Purpose: To indicate the start of a transaction set and to assign a control number
Semantic: The transaction set identifier (ST01) used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the invoice transaction set).

Data Element Summary

	REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES		
Mandatory	ST01	143	Transaction Set Identifier Code Code uniquely identifying a Transaction Set. 841 X12.51 Specifications/Technical Information	M	ID	3/3
Mandatory	ST02	329	Transaction Set Control Number Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	M	AN	4/9

Implementation Note:

This unique number is assigned by the originator of the transaction set or by the originator's application program. This same number is carried in SE02.

Mandatory	Segment: SPI Specification Identifier				
	Level: Header				
	Loop: SPI Repeat: >1				
	Usage: Mandatory				
	Max Use: 1				
	Purpose: To provide a description of the included specification or technical data items.				
Data Element Summary					
	REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES	
Mandatory	SPI01	786	Security Level Code Code indicating the level of confidentiality assigned by the sender to the information following.	M ID	2/2
	Implementation Notes: 1. Use any code. 2. If the data being transmitted have both a government security classification and a commercial security protection requirement, then this data element will carry the government security classification code and the commercial security protection code will be carried in SPI09. 3. If the data being transmitted have only one protection requirement, then this data element can carry either the government security classification code or the commercial security protection code. 4. Use this data element to indicate the highest protection level (government or commercial) assigned to the data being provided. Use the SPI segment at the Detail level to indicate the protection level of individual data items.				
Mandatory	SPI02	128	Reference Number Qualifier Code qualifying the Reference Number. TN Transaction Reference Number	M ID	2/2
	Code Value Implementation Note: Use Code TN for the unique reference number of this transaction set.				
Mandatory	SPI03	127	Reference Number Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier.	M AN	1/30
	Implementation Note: This is the unique reference number of this transaction set.				
Not Used	SPI04	790	Entity Title	O AN	1/132
Not Used	SPI05	791	Entity Purpose	O AN	1/80
Not Used	SPI06	792	Entity Status Code	O ID	1/1
Required	SPI07	353	Transaction Set Purpose Code Code identifying purpose of transaction set.	O ID	2/2
	Implementation Note: Use any appropriate listed code. 00 Original 01 Cancellation				

841 • FURNISH
SPI • SPECIFICATION IDENTIFIER

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		<p>Code Value Implementation Note: Use Code 01 when cancelling an 841 transaction set furnishing specifications/technical information. When Code 01 is used, only the HL segment (HL01 and HL03) at the Detail level (Table 2) is needed.</p> <p>02 Add 03 Delete 04 Change</p>			
Optional	SPI08 755	Report Type Code	O	ID	2/2
		Code indicating the title or contents of a document, report or supporting item			
		<p>Implementation Note: Any code may be used, although the following codes are those that would be typically used.</p> <p>AB Assembly Drawing DW Drawing(s) ER Engineering Change Request</p> <p>Code Value Implementation Note: Use Code ER to indicate technical documentation associated with an Engineering Change Proposal (ECP).</p> <p>PA Part Drawing PF Product Specification</p> <p>Code Value Implementation Note: Use Code PF for data being provided in support of a proposal.</p>			
Optional	SPI09 786	Security Level Code	O	ID	2/2
		Code indicating the level of confidentiality assigned by the sender to the information following.			
		<p>Implementation Notes:</p> <p>1. Use this data element ONLY when SPI01 is Code 90, 92, 93, 94, or 99, and the data being provided also have a commercial security protection requirement.</p> <p>2. Use this data element to indicate the highest level of commercial security protection assigned to the data being transmitted. Use the SPI segment at the Detail level to indicate the commercial security protection of individual data items.</p> <p>00 Company Non-Classified 01 Company Internal Use Only 02 Company Confidential 03 Company Confidential, Restricted (Need to Know) 04 Company Registered (Signature Required) 05 Personal 09 Company Defined (Trading Partner Level)</p>			
Not Used	SPI10 559	Agency Qualifier Code	O	ID	2/2
Not Used	SPI11 916	Code List Reference	O	AN	1/6
Not Used	SPI12 554	Assigned Number	O	NO	1/6

Optional

Segment: NTE Note/Special Instruction

Level: Header

Loop: SPI

Usage: Optional

Max Use: >1

Purpose: To transmit information in a free-form format, if necessary, for comment or special instruction

Comment: The NTE segment permits free-form information/data which, under ANSI X12 standard implementations, is not machine processable. The use of the "NTE" segment should therefore be avoided, if at all possible, in an automated environment.

Implementation Note:

Use this segment to provide information pertinent to the entire transaction set. To provide information relative to a specific data item, use the MSG segment in Table 2.

Data Element Summary

Optional

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
NTE01	363	Note Reference Code	O ID 3/3

Code identifying the functional area or purpose for which the note applies.

GEN Entire Transaction Set

Code Value Implementation Note:

Use Code GEN for any notes that relate to the entire transaction set.

Mandatory

NTE02	3	Free Form Message	M AN 1/60
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Free-form text.

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REF • REFERENCE NUMBERS

ANSI ASC X12 VERIOSN/RELEASE 003030DOD

Optional	Segment: REF Reference Numbers Level: Header Loop: SPI/REF Repeat: >1 Usage: Optional Max Use: 1 Purpose: To specify identifying numbers. Syntax: R0203 — At least one of REF02 or REF03 is required. Implementation Note: Use the REF segment to provide reference numbers applicable to the data being provided. For example, provide the Engineering Change Proposal number and affected contract number(s) if the data pertain to an ECP; or provide the quote number and applicable solicitation number if the data is related to a proposal in response to an RFQ.			
	Data Element Summary			
Mandatory	REF01	128	Reference Number Qualifier Code qualifying the Reference Number.	M ID 2/2
	39 Proposal Number Code Value Implementation Note: Use Code 39 for an Engineering Change Proposal number to which the data in this transaction set pertain. C4 Change Number Code Value Implementation Note: Use Code C4 for the contract modification number to which the data in this transaction set pertain. CT Contract Number Code Value Implementation Note: Use Code CT to specify the contract to which the data in this transaction set pertain. KS Solicitation Code Value Implementation Note: Use Code KS for the solicitation number to which the data in this transaction set pertain. Q1 Quote Number Code Value Implementation Note: Use Code Q1 for the quote number to which the data in this transaction set pertain. TN Transaction Reference Number Code Value Implementation Note: Use Code TN for the unique reference number of this transaction set. ZZ Mutually Defined Code Value Implementation Note: If applicable, use Code ZZ for the unique reference number of the transaction set to which the data in this transaction set pertain.			
Conditional	REF02	127	Reference Number Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier.	C AN 1/30
Not Used	REF03	352	Description	C AN 1/80

Optional	Segment: DTM Date/Time Reference				
	Level: Header				
	Loop: SPI/REF				
	Usage: Optional				
	Max Use: >1				
Mandatory	Purpose: To specify pertinent dates and times				
	Syntax: R0203 — At least one of DTM02 or DTM03 is required.				
	Data Element Summary				
	REF DES.	DATA ELEMENT	NAME	ATTRIBUTES	
	DTM01	374	Date/Time Qualifier Code specifying type of date or time, or both date and time.	M	ID 3/3
Conditional	092 Contract Effective				
	Code Value Implementation Note: When REF01 is Code CT, use Code 092 to indicate the date of the contract specified in REF02.				
	097 Transaction Creation				
	Code Value Implementation Note: When REF01 is Code TN, use Code 097 to indicate the creation date of this transaction set.				
	098 Bid (Effective)				
Not Used	Code Value Implementation Note: When REF01 is Code Q1, use Code 098 to indicate the date of the quote specified in REF02.				
	152 Effective Date of Change				
	Code Value Implementation Note: When REF01 is Code C4, use Code 152 to indicate the effective date of the modification.				
	368 Submittal				
	Code Value Implementation Note: When REF01 is Code ZZ, use Code 368 to indicate the date of the referenced transaction set specified in REF02.				
Not Used	993 Request for Quotation				
	Code Value Implementation Note: When REF01 is Code KS, use Code 993 to indicate the date of the solicitation specified in REF02.				
	ZZZ Mutually Defined				
	Code Value Implementation Note: When REF01 is Code 39, use Code ZZZ for the date of the Engineering Change Proposal.				
	DTM02	373	Date Date (YYMMDD).	C	DT 6/6
Not Used	DTM03	337	Time	C	TM 4/4
Not Used	DTM04	623	Time Code	O	ID 2/2
Not Used	DTM05	624	Century	O	NO 2/2

841 • FURNISH
N1 • NAME

ANSI ASC X12 VERIOSN/RELEASE 003030DOD

Optional

Segment: N1 Name

Level: Header

Loop: SPI/N1 **Repeat:** >1

Usage: Optional

Max Use: 1

Purpose: To identify a party by type of organization, name and code

Syntax: 1. R0203 — At least one of N102 or N103 is required.

2. P0304 — If either N103 or N104 is present, then the other is required.

Comment: This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.

Implementation Note:

Whenever possible, identification and address information should be provided using N101, N103, and N104. Use N102 and segments N2 through N4 when this information cannot be provided by use of a CAGE code or a DoDAAC.

Data Element Summary

	REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
Mandatory	N101	98	Entity Identifier Code Code identifying an organizational entity, a physical location, or an individual BY Buying Party (Purchaser) FR Message From SE Selling Party TO Message To	M ID 2/2
Conditional	N102	93	Name Free-form name.	C AN 1/35
Conditional	N103	66	Identification Code Qualifier Code designating the system/method of code structure used for Identification Code (67). 10 Department of Defense Activity Address Code (DODAAC) 33 Commercial and Government Entity (CAGE)	C ID 1/2
Conditional	N104	67	Identification Code Code identifying a party or other code.	C AN 2/17

Optional

Segment: N2 Additional Name Information

Level: Header

Loop: SPI/N1

Usage: Optional

Max Use: 2

Purpose: To specify additional names or those longer than 35 characters in length

Implementation Note:

This segment is not necessary when the entity cited in N101 is described by use of a CAGE code or a DoDAAC.

Data Element Summary

Mandatory

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
N201	93	Name Free-form name.	M AN 1/35

Optional

N202	93	Name Free-form name.	O AN 1/35
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841 - FURNISH
N3 - ADDRESS INFORMATION

ANSI ASC X12 VERIOSN/RELEASE 003030DOD

Optional	Segment: N3 Address Information																						
	Level: Header																						
	Loop: SPI/N1																						
	Usage: Optional																						
	Max Use: 2																						
	Purpose: To specify the location of the named party																						
	Implementation Note:																						
	<i>This segment is not necessary when the entity cited in N101 is described by use of a CAGE code or a DoDAAC.</i>																						
	Data Element Summary																						
	<table><tr><th>REF. DES.</th><th>DATA ELEMENT</th><th>NAME</th><th colspan="3">ATTRIBUTES</th></tr><tr><td rowspan="2">Mandatory</td><td rowspan="2">N301</td><td rowspan="2">166</td><td rowspan="2">Address Information</td><td rowspan="2">M</td><td rowspan="2">AN</td><td rowspan="2">1/35</td></tr><tr><td>Address information</td></tr><tr><td rowspan="2">Optional</td><td rowspan="2">N302</td><td rowspan="2">166</td><td rowspan="2">Address Information</td><td rowspan="2">O</td><td rowspan="2">AN</td><td rowspan="2">1/35</td></tr><tr><td>Address information</td></tr></table>	REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES			Mandatory	N301	166	Address Information	M	AN	1/35	Address information	Optional	N302	166	Address Information	O	AN	1/35	Address information
REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES																				
Mandatory	N301	166	Address Information	M	AN	1/35																	
							Address information																
Optional	N302	166	Address Information	O	AN	1/35																	
							Address information																

Optional

Segment: N4 Geographic Location
Level: Header
Loop: SPI/N1
Usage: Optional
Max Use: 1
Purpose: To specify the geographic place of the named party
Syntax: 1. R0105 — At least one of N401 or N405 is required.
2. P0506 — If either N405 or N406 is present, then the other is required.
Comments: 1. A combination of either N401 through N404 (or N405 and N406) may be adequate to specify a location.
2. N402 is required only if city name (N401) is in the USA or Canada.

Implementation Note:
This segment is not necessary when the entity cited in N101 is described by use of a CAGE code or a DoDAAC.

Data Element Summary

	REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES		
Conditional	N401	19	City Name Free-form text for city name.	C	AN	2/30
Optional	N402	156	State or Province Code Code (Standard State/Province) as defined by appropriate government agency.	O	ID	2/2
Optional	N403	116	Postal Code Code defining international postal zone code excluding punctuation and blanks (zip code for United States).	O	ID	3/9
Optional	N404	26	Country Code Code identifying the country.	O	ID	2/3
Conditional	N405	309	Location Qualifier Code identifying type of location.	C	ID	1/2
Conditional	N406	310	Location Identifier Code which identifies a specific location.	C	AN	1/25

841 - FURNISH
PER - ADMINISTRATIVE COMMUNICATIONS CONTACT

ANSI ASC X12 VERIOSN/RELEASE 003030DOD

Optional

Segment: PER Administrative Communications Contact

Level: Header

Loop: SPI/N1

Usage: Optional

Max Use: >1

Purpose: To identify a person or office to whom administrative communications should be directed

Syntax: 1. P0304 — If either PER03 or PER04 is present, then the other is required.
2. P0506 — If either PER05 or PER06 is present, then the other is required.

Data Element Summary

	REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
Mandatory	PER01	366	Contact Function Code Code identifying the major duty or responsibility of the person or group named. IC Information Contact Code Value Implementation Note: Use Code IC for the information point of contact within the originator's organization.	M ID 2/2
Optional	PER02	93	Name Free-form name.	O AN 1/35
			Implementation Note: Use to provide the name of the information point of contact.	
Conditional	PER03	365	Communication Number Qualifier Code identifying the type of communication number. Implementation Note: Use any appropriate listed code, although Code EM is preferred. EM Electronic Mail FX Facsimile TE Telephone TM Telemail	C ID 2/2
Conditional	PER04	364	Communication Number Complete communications number including country or area code when applicable.	C AN 1/25
Conditional	PER05	365	Communication Number Qualifier Code identifying the type of communication number.	C ID 2/2
Conditional	PER06	364	Communication Number Complete communications number including country or area code when applicable.	C AN 1/25

Mandatory

Segment: HL Hierarchical Level

Level: Detail

Loop: HL **Repeat:** >1

Usage: Mandatory

Max Use: 1

Purpose: To identify dependencies among and the content of hierarchically related groups of data segments.

Comments: 1. The HL Segment is used to identify levels of detail information using a Hierarchical Structure, such as relating line item data to shipment data, and packaging data to line item data.

2. The HL segment defines a top-down/left-right ordered structure.

3. HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment, and would be incremented by one in each subsequent HL segment within the transaction.

4. HL02 identifies the Hierarchical ID Number of the HL segment to which the current HL segment is subordinate.

5. HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order or item level information.

6. HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

Implementation Notes:

1. The HL loop can be used to transmit a single item of technical information or multiple items that may or may not have a hierarchical relationship.

2. When providing a single item of technical information, only one iteration of the HL loop is necessary.

3. When transmitting multiple items that may or may not have a hierarchical relationship, repeat the HL loop as many times as required to specify all levels and use as many iterations of the HL/SPI loop as necessary.

4. When SPI07 is Code 01, the only entries in the Detail level (Table 2) are in HL01 and HL03.

Data Element Summary

Mandatory

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
HL01	628	Hierarchical ID Number A unique number assigned by the sender to identify a particular data segment in a hierarchical structure.	M AN 1/12

841 - FURNISH
HL - HIERARCHICAL LEVEL

ANSI ASC X12 VERIOSN/RELEASE 003030DOD

Optional	Implementation Note: <i>This is a unique and progressive number assigned by the originator of the transaction set starting with the number 1.</i>				
	HL02	734	Hierarchical Parent ID Number	O AN	1/12
	Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to.				
Mandatory	Implementation Note: <i>This data element is used only when providing multiple items of technical information that have a hierarchical relationship.</i>				
	HL03	735	Hierarchical Level Code	M ID	1/2
	Code defining the characteristic of a level in a hierarchical structure.				
	Implementation Note: <i>Use any appropriate listed code to indicate the hierarchical relationship of the data provided.</i>				
	A Assembly F Component I Item				
	Code Value Implementation Note: <i>Use Code I as the default code when no other code is applicable.</i>				
	SY System U Subassembly ZZ Mutually Defined				
	Code Value Implementation Note: <i>Use Code ZZ only when SP107 is Code 01. This is required to comply with the mandatory nature of the data element.</i>				
Optional	HL04	736	Hierarchical Child Code	O ID	1/1
	Code indicating whether if there are hierarchical child data segments subordinate to the level being described.				
	Implementation Note: <i>When providing single or multiple specifications/technical information that have no hierarchical structure, no entry is required.</i>				
	0 No Subordinate HL Segment in This Hierarchical Structure.				
	Code Value Implementation Note: <i>Use Code 0 to indicate the lowest level in the hierarchical relationship.</i>				
	1 Additional Subordinate HL Data Segment in This Hierarchical Structure.				
	Code Value Implementation Note: <i>Use Code 1 to indicate there are lower level items in this hierarchical relationship.</i>				

Optional	Segment: SPI Specification Identifier Level: Detail Loop: HL/SPI Repeat: >1 Usage: Optional Max Use: 1 Purpose: To provide a description of the included specification or technical data items.			
	Data Element Summary			
	REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
Mandatory	SPI01	786	Security Level Code Code indicating the level of confidentiality assigned by the sender to the information following.	M ID 2/2
	Implementation Notes: 1. Use any code. 2. If the data item being transmitted has both a government security classification and a commercial security protection requirement, then this data element will carry the government security classification code and the commercial security protection code will be carried in SPI09. 3. If the data item being transmitted has only one protection requirement, then this data element can carry either the government security classification or the commercial security protection code.			
Mandatory	SPI02	128	Reference Number Qualifier Code qualifying the Reference Number.	M ID 2/2
	Implementation Note: Any code may be used but typically used codes include: DD Document Identification Code Code Value Implementation Note: Use Code DD for the reference number of an Engineering Data List. DG Drawing Number QC Product Specification Document Number S1 Engineering Specification Number S2 Military Specification Number (MILSPEC) S3 Specification Number TP Test Specification Number W9 Special Packaging Instruction Number ZZ Mutually Defined Code Value Implementation Note: Use Code ZZ for another type of reference number and identify that number in SPI04.			
Mandatory	SPI03	127	Reference Number Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier.	M AN 1/30
Optional	SPI04	790	Entity Title Title of the data entity.	O AN 1/132

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		Implementation Note: <i>When SPI02 is Code ZZ, identify the reference number cited in SPI03.</i>			
Not Used	SPI05	791	Entity Purpose	O AN	1/80
Optional	SPI06	792	Entity Status Code Code indicating the current status of the data item specified by the electronic data item.	O ID	1/1
		Implementation Note: <i>Use any code.</i>			
		Z Mutually Defined			
		Code Value Implementation Note: <i>Use Code Z for another entity status condition and explain in the MSG segment.</i>			
Not Used	SPI07	353	Transaction Set Purpose Code	O ID	2/2
Not Used	SPI08	755	Report Type Code	O ID	2/2
Optional	SPI09	786	Security Level Code Code indicating the level of confidentiality assigned by the sender to the information following.	O ID	2/2
		Implementation Note: <i>Use this data element ONLY when SPI01 is Code 90, 92, 93, 94, or 99 and the data item being transmitted also has a commercial security protection requirement.</i>			
		00 Company Non-Classified			
		01 Company Internal Use Only			
		02 Company Confidential			
		03 Company Confidential, Restricted (Need to Know)			
		04 Company Registered (Signature Required)			
		05 Personal			
		09 Company Defined (Trading Partner Level)			
Not Used	SPI10	559	Agency Qualifier Code	O ID	2/2
Not Used	SPI11	916	Code List Reference	O AN	1/6
Not Used	SPI12	554	Assigned Number	O NO	1/6

Optional

Segment: RDT Revision Date/Time

Level: Detail

Loop: HL/SPI

Usage: Optional

Max Use: >1

Purpose: To specify the revision level of the electronic data item.

Syntax: 1. C0102 — If RDT01 is present, then RDT02 is required.

2. L030405 — If RDT03 is present, then at least one of RDT04 or RDT05 are required.

3. C0605 — If RDT06 is present, then RDT05 is required.

Implementation Note:

Use this segment to specify the change and/or revision to the specification/technical information being provided.

Data Element Summary

Optional

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
RDT01	795	Revision Level Code Code indicating the revision or engineering change level of the data items referred to by the specification number. A Change Level E Revision Level H Version Level	O ID 1/1

Conditional

RDT02	796	Revision Value Revision or engineering change level of the data items referred to by the specification number.	C AN 1/30
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Implementation Notes:

1. When RDT01 is Code A or Code E, insert the change or revision number/letter.

2. When RDT01 is Code H, specify the version being transmitted, e.g., "As-Built" or "As-Shipped".

Optional

RDT03	374	Date/Time Qualifier Code specifying type of date or time, or both date and time. 007 Effective	O ID 3/3
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Code Value Implementation Note:

Use Code 007 to specify the change, revision, or version date.

Conditional

RDT04	373	Date Date (YYMMDD).	C DT 6/6
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Implementation Note:

Enter the date of the change, revision, or version being transmitted in this transaction set.

Not Used

RDT05	337	Time	C TM 4/6
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Not Used

RDT06	623	Time Code	O ID 2/2
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LIN • ITEM IDENTIFICATION

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Optional

Segment: LIN Item Identification

Level: Detail

Loop: HL/SPI

Usage: Optional

Max Use: 1

Purpose: To specify basic item identification data.

- Syntax:**
1. C0405 — If LIN04 is present, then LIN05 is required.
 2. C0607 — If LIN06 is present, then LIN07 is required.
 3. C0809 — If LIN08 is present, then LIN09 is required.
 4. C1011 — If LIN10 is present, then LIN11 is required.
 5. C1213 — If LIN12 is present, then LIN13 is required.
 6. C1415 — If LIN14 is present, then LIN15 is required.
 7. C1617 — If LIN16 is present, then LIN17 is required.
 8. C1819 — If LIN18 is present, then LIN19 is required.
 9. C2021 — If LIN20 is present, then LIN21 is required.
 10. C2223 — If LIN22 is present, then LIN23 is required.
 11. C2425 — If LIN24 is present, then LIN25 is required.
 12. C2627 — If LIN26 is present, then LIN27 is required.
 13. C2829 — If LIN28 is present, then LIN29 is required.
 14. C3031 — If LIN30 is present, then LIN31 is required.

Semantic: LIN01 is the line item identification

- Comments:**
1. See the Data Dictionary for a complete list of ID's.
 2. LIN02 through LIN31 provide for fifteen (15) different product/service ID's for each item. For Example: Case, Color, Drawing No., UPC No., ISBN No., Model No., SKU.

Implementation Notes:

1. Use this segment to transmit information relative to the data item identified in SPI03.
2. LIN02 through LIN31 are used in pairs (e.g., LIN02 and LIN03) as required to carry additional information about the specific data item identified in SPI03.

Data Element Summary

Not Used
Mandatory

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
LIN01	350	Assigned Identification	O AN 1/11
LIN02	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234).	M ID 2/2

F7 End-Item Description

Code Value Implementation Note:
Use Code F7 for the application reference.

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			FS National Stock Number <i>Code Value Implementation Note:</i> Use Code FS for the National Stock Number.			
			IN Buyer's Item Number <i>Code Value Implementation Note:</i> Use Code IN for the CLIN or SUBCLIN.			
			MG Manufacturer's Part Number <i>Code Value Implementation Note:</i> Use Code MG for the manufacturer's part number.			
			PD Part Number Description <i>Code Value Implementation Note:</i> Use Code PD to provide a noun description of the item to which the data item identified in SPI03 pertains.			
Mandatory	LIN03	234	Product/Service ID Identifying number for a product or service.	M	AN	1/30
Optional	LIN04	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234).	O	ID	2/2
Conditional	LIN05	234	Product/Service ID Identifying number for a product or service.	C	AN	1/30
Optional	LIN06	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234).	O	ID	2/2
Conditional	LIN07	234	Product/Service ID Identifying number for a product or service.	C	AN	1/30
Optional	LIN08	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234).	O	ID	2/2
Conditional	LIN09	234	Product/Service ID Identifying number for a product or service.	C	AN	1/30
Optional	LIN10	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234).	O	ID	2/2
Conditional	LIN11	234	Product/Service ID Identifying number for a product or service.	C	AN	1/30
Optional	LIN12	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234).	O	ID	2/2
Conditional	LIN13	234	Product/Service ID Identifying number for a product or service.	C	AN	1/30
Optional	LIN14	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234).	O	ID	2/2

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Conditional	LIN15	234	Product/Service ID Identifying number for a product or service.	C	AN	1/30
Optional	LIN16	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234).	O	ID	2/2
Conditional	LIN17	234	Product/Service ID Identifying number for a product or service.	C	AN	1/30
Optional	LIN18	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234).	O	ID	2/2
Conditional	LIN19	234	Product/Service ID Identifying number for a product or service.	C	AN	1/30
Optional	LIN20	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234).	O	ID	2/2
Conditional	LIN21	234	Product/Service ID Identifying number for a product or service.	C	AN	1/30
Optional	LIN22	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234).	O	ID	2/2
Conditional	LIN23	234	Product/Service ID Identifying number for a product or service.	C	AN	1/30
Optional	LIN24	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234).	O	ID	2/2
Conditional	LIN25	234	Product/Service ID Identifying number for a product or service.	C	AN	1/30
Optional	LIN26	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234).	O	ID	2/2
Conditional	LIN27	234	Product/Service ID Identifying number for a product or service.	C	AN	1/30
Optional	LIN28	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234).	O	ID	2/2
Conditional	LIN29	234	Product/Service ID Identifying number for a product or service.	C	AN	1/30
Optional	LIN30	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234).	O	ID	2/2
Conditional	LIN31	234	Product/Service ID	C	AN	1/30

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Identifying number for a product or service.

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N1 - NAME

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Optional

Segment: N1 Name

Level: Detail

Loop: HL/SPI

Usage: Optional

Max Use: >1

Purpose: To identify a party by type of organization, name and code

Syntax: 1. R0203 — At least one of N102 or N103 is required.

2. P0304 — If either N103 or N104 is present, then the other is required.

Comment: This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.

Data Element Summary

	REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
Mandatory	N101	98	Entity Identifier Code Code identifying an organizational entity, a physical location, or an individual ZE End Item Manufacturer Code Value Implementation Note: <i>Use Code ZE to identify the manufacturer of an item.</i>	M ID 2/2
Conditional	N102	93	Name Free-form name.	C AN 1/35
Conditional	N103	66	Identification Code Qualifier Code designating the system/method of code structure used for Identification Code (67).	C ID 1/2
Conditional	N104	67	Identification Code Code identifying a party or other code.	C AN 2/17

Optional

Segment: **MSG** Message Text
Level: Detail
Loop: HL/SPI
Usage: Optional
Max Use: >1
Purpose: To provide a free form format that would allow the transmission of text information.
Comment: MSG02 is not related to the specific characteristics of a printer, but identifies top of page, advance a line, etc.

Implementation Notes:
1. Use this data segment to transmit information relative to a specific data item.
2. Maximum use is 3.

Data Element Summary

	REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES		
Mandatory	MSG01	933	Free-Form Message Text Free-form message text.	M	AN	1/264
Not Used	MSG02	934	Printer Carriage Control Code	O	ID	2/2

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EFI • ELECTRONIC FORMAT IDENTIFICATION

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Optional	Segment: EFI Electronic Format Identification				
	Level: Detail				
	Loop: HL/EFI Repeat: >1				
	Usage: Optional				
	Max Use: 1				
	Purpose: To provide basic information about the electronic format of the interchange data.				
	Syntax: 1. C0504 — If EFI05 is present, then EFI04 is required.				
	2. C0706 — If EFI07 is present, then EFI06 is required.				
	3. C0908 — If EFI09 is present, then EFI08 is required.				
	Implementation Note: Maximum use is 1 for each HL.				
	Data Element Summary				
	REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES	
Mandatory	EFI01	786	Security Level Code Code indicating the level of confidentiality assigned by the sender to the information following.	M ID	2/2
	Implementation Notes:				
	1. Use any appropriate code.				
	2. The security level code specified here relates to the specific binary data provided in the BIN segment.				
	3. The security code provided for the binary data being transmitted in the BIN segment is the highest protection level assigned to the data. If the data have both a government security classification and a commercial security protection requirement, the government security classification takes precedence and shall be provided in this data element.				
Optional	EFI02	933	Free-Form Message Text Free-form message text.	O AN	1/264
	Implementation Note: Use only if necessary to transmit a short remark or note about the binary information being transmitted in this transaction set.				
Optional	EFI03	797	Security Technique Code Code indicating that this element will be used to tell an EDI translator program which security technique to use.	O ID	2/2
	Implementation Note: Use any code.				
Conditional	EFI04	799	Version Identifier Revision level of a particular format, program, technique or algorithm.	C AN	1/30
	Implementation Note: Use to specify the version, e.g., 2.0, 3.2, etc., of the program being used to transmit the data in the following BIN segment. This data element pertains to the program identifier specified in EFI05.				
Optional	EFI05	802	Program Identifier	O AN	1/30

			Identifies the name of the software program from which the technical data originates.			
			Implementation Note: Use to specify the application software program used to create the data being transmitted in the following BIN segment, e.g., TruckCad, Class8Cad, etc..			
Conditional	EFI06	799	Version Identifier Revision level of a particular format, program, technique or algorithm.	C	AN	1/30
			Implementation Note: Use to identify the specific version of the interchange standard used to transmit the data in the following BIN segment. This data element pertains to the interchange format specified in EFI07.			
Optional	EFI07	801	Interchange Format Industry or proprietary standard used to identify the format of the data.	O	AN	1/30
			Implementation Note: Use to enter the specification number or description of the version noted in EFI06. Examples include MIL-D-28000 for IGES and MIL-R-28002 for Raster.			
Conditional	EFI08	799	Version Identifier Revision level of a particular format, program, technique or algorithm.	C	AN	1/30
			Implementation Note: Use to identify the version of the program used to compress the data transmitted in the following BIN segment. This data element pertains to the compression technique program specified in EFI09.			
Optional	EFI09	800	Compression Technique Identifies the digital data compression means and the type.	O	AN	1/30
			Implementation Note: Use to identify the compression method, if any, applied to the data transmitted in the following BIN segment. Examples include TR, Moyer, Fish, etc.			
Optional	EFI10	789	Drawing Sheet Size Code Code indicating the drawing size and orientation of a technical drawing as specified and described in the current version of standards ANSI Y14.1 and ISO 5457 (E). See the listed ANSI and ISO standards for the maximum lengths for rolled sheets.*	O	ID	2/2
			Implementation Notes: 1. Use to specify the drawing sheet size if the data transmitted in the BIN segment are to be presented in a hard copy as well as stored in the receiver's system. 2. Use any code.			
Optional	EFI11	803	File Name Name assigned or declared for a file or used by a program to identify a file. Exact format of the name depends on the computer operating system being used. Name also may be known as the file's "data set name".	O	AN	1/64
			Implementation Note: Use to enter the file name of the data to be transmitted.			
Not Used	EFI12	804	Block Type	O	AN	1/4
Not Used	EFI13	787	Record Length	O	N	1/15
Not Used	EFI14	788	Block Length	O	N	1/5

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BIN • BINARY DATA

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Optional

Segment: BIN Binary Data

Level: Detail

Loop: HL/EFI

Usage: Optional

Max Use: >1

Purpose: To transfer binary data in a single data segment and to allow identification of the end of the data segment through a count. There is no identification of the internal structure of the binary data in this segment.

Data Element Summary

	REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
Mandatory	BIN01	784	Length of Binary Data The length in integral octets of the binary data.	M N0 1/15
Mandatory	BIN02	785	Binary Data A string of octets which can assume any binary pattern from hexadecimal 00 to FF.	M B 1/10

Mandatory

Segment: **SE** Transaction Set Trailer

Level: Summary

Loop: _____

Usage: Mandatory

Max Use: 1

Purpose: To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments).

Comment: SE is the last segment of each transaction set.

Data Element Summary

Mandatory

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
SE01	96	Number of Included Segments Total number of segments included in a transaction set including ST and SE segments.	M NO 1/10

Mandatory

SE02	329	Transaction Set Control Number Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	M AN 4/9
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Implementation Note:

Enter the same number as carried in ST02.

4.0 ASC X 12 FORMS

In this chapter, applicable ASC X12 forms are presented.

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ASC X12 WORK REQUEST FORM

SUBMITTER INSTRUCTIONS

NOTE: ALL REQUESTS MUST BE TYPED OR PRINTED LEGIBLY IN BLACK INK. INCOMPLETE OR ILLEGIBLE WORK REQUESTS WILL BE RETURNED TO THE SUBMITTER.

Submit completed forms to: Technical Department, ASC X12 Secretariat, Data Interchange Standards Association, Inc., 1800 Diagonal Road, Suite 355, Alexandria, VA 22314-2852 or FAX (703) 548-5738. Submitters are notified of the status of the work request after it has been reviewed by X12J Technical Assessment Subcommittee.

1. TO USE THIS FORM TO REQUEST A CHANGE TO AN EXISTING STANDARD(S), use ONE Work Request (WR) Form to list all changes needed to meet one BUSINESS REASON. Otherwise use multiple forms. If more space is necessary, numbered attachments may be used for continuation.

2. TO USE THIS FORM FOR SUPPORTING DATA MAINTENANCE FOR A NEW DRAFT STANDARD, list all information on ONE form; use attachments as necessary. List first all new segments, then all new data elements/codes/code sources. Then list revisions to existing segments and data elements/codes/code sources; provide a business case for revisions to existing standards. Then list any others changes needed (e.g., X12.5, X12.6), including justification.

3. TO USE THIS FORM TO REQUEST A PROPOSED NEW X12 STANDARDS PROJECT, provide the business need and justification for the new project in Part D. The WR will be referred to an X12 subcommittee for analysis.

ADDITIONAL INFORMATION FOR COMPLETING THIS FORM:

PART A: SUBMITTER INFORMATION: The WR may represent the position of an individual, industry group, work group, X12 subgroup, etc. If the WR represents the position of an X12 subcommittee-related work group, the subcommittee chair must initial the WR.

PART B: REFERENCE USED: Indicate the version/release or edition of the standard you are using as a reference.

PART C: RAMIFICATIONS: List affected transaction sets, segments and data elements, or other standards. For a control standard, name the affected page and section number.

PART D: BUSINESS CASE/REASON FOR CHANGE: Provide a complete scenario that describes the business function/operation that will be satisfied by a change to the standard. Be specific, because this information will appear in the X12 membership ballot package and will be the only information that members have on which to base their vote. X12J Technical Assessment Subcommittee requires enough information to be able to propose an alternate solution to the one provided, if necessary.

PART E: PROPOSED WORK: List the specific changes being requested. Give the names and associated identifiers of the standards segments, data elements and codes affected by the changes. Definitions for new codes and for industry-specific terms must be complete. For new codes, provide a proposed code and a code definition. **RULES:** (1) Acronyms/abbreviations cannot be added to the standards—they must be spelled out. (2) Provide an expanded code definition for each code that is not completely self explanatory, that is, terms that are not in general business use or that are industry specific. (3) Provide code source references for all externally published (non-X12) code lists cited (use the Form for New or Revised Code Source Reference, page 2 of the form).

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Date Submitted _____
(Submitter Provide)

DM NUMBER _____
(Secretariat Only)

ASC X12

WORK REQUEST FORM

A. SUBMITTER INFORMATION:

Submitter Name _____ Company _____
Address _____ Address/ZIP _____ /ZIP +4 _____
Phone _____

Submission represents the position of: _____ SC Chair Initials: _____

B. REFERENCE USED: Version _____ /Release _____ /Subrelease _____ or Workbook (date) _____

C. RAMIFICATIONS:

Transaction Set(s) Used _____
Segment(s) Affected _____
Data Element(s) Affected _____
Other Standard(s) _____

D. BUSINESS CASE/REASON FOR CHANGE:

E. PROPOSED WORK:

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WR Form Page Two

DM NUMBER _____
(Secretariat Only)

FORM FOR NEW OR REVISED CODE SOURCE REFERENCE FOR X12.3 DATA ELEMENT DICTIONARY

INSTRUCTIONS: Complete this form whenever a new data element or data element code is requested to be added to Appendix A of X12.3 Data Element Dictionary, which references a code list published by an organization external to X12. Use one form for each new reference. This form may be used to revise current references; fill out the appropriate areas below.

PART 1: REFERENCE Circle 1 or 2 below. If 2, fill in the blank.

- (1) NEW REFERENCE
(2) REVISED REFERENCE, Current reference number/name _____

PART 2: REFERENCE TITLE If there is only one source for codes for the data element, the title should be the same as the data element name. If there are multiple codes referencing external code sources for the same data element, title should approximate the code definition.

REFERENCE TITLE: _____

PART 3: DATA ELEMENTS USED IN Give the data element reference number and name which directs the user to this code source. Give the code ID (if assigned) if this is for a specific code of the data element.

USED IN: DE No. _____, Code ID _____

PART 4: SOURCE Provide the name of the publication which contains the codes referenced.

PUBLISHED IN: _____

PART 5: AVAILABLE FROM Give the publisher, or other contact, from whom the user can obtain the document.

AVAILABLE: Name/Attn of _____
Company _____
Address _____
Address _____
Address/ZIP _____/ZIP + 4 _____

PART 6: ABSTRACT Briefly describe the publication, its purpose, and indicate what codes it contains.

ABSTRACT: _____

5.0 GLOSSARY

This chapter contains ASC X12- and DoD-specific glossaries.

5.1 X12 GLOSSARY

ANSI

American National Standards Institute

ANSI Standard

A document published by ANSI that has been approved through the consensus process of public announcement and review. Each such standards must have been developed by an ANSI committee and must be revisited by that committee within 5 years for updating. See Draft Standard for Trial Use (DSTU).

Area Transaction Set

A predefined area within a transaction set (header, detail, summary) containing segments and their various attributes.

ASC X12

Accredited Standards Committee, X12. It comprises industry members who create electronic data interchange (EDI) standards for submission to ANSI for subsequent approval and dissemination.

Authentication

A mechanism that allows the receiver of an electronic transmission to verify the sender and the integrity of the content of the transmission through the use of an electronic "key" or algorithm shared by the trading partners. That algorithm is sometimes referred to as an electronic signature.

Compliance Checking

A checking process that is used to ensure that a transmission complies with ANSI X12 syntax rules.

Conditional (C)

A data element requirement designator that indicates that the presence of a specified data element is dependent on the value or presence of other data elements in the segment. The condition must be stated and must be computer processable.

Control Segment

A segment that has the same structure as a data segment but is used for transferring control information for grouping data segments. Control segments may be loop control segments (LS/LE), transaction set control segments (ST/SE), or functional group control segments (GS/GE), defined in X12.6, or interchange control segments (ISA/IEA/TA1) defined in X12.5.

Data Element

The basic unit of information in the EDI standards containing a set of values that represent a singular fact. It may be single-character codes, literal descriptions, or numeric values.

Data Element Length

The range, minimum to maximum, of the number of character positions available to represent the value of a data element. A data element may be of variable length and range from minimum to maximum or it may be of fixed length in which the minimum is equal to the maximum.

Data Element Reference Number

Number assigned to each data element as a unique identifier.

Data Element Requirement Designator

A code defining the need for a data element value to appear in the segment if the segment is transmitted. The X12 codes are mandatory (M), optional (O), or conditional (C). DoD may consider a segment "mandatory" even though it is "optional" by X12 standards.

Data Element Separator

A unique character preceding each data element that is used to delimit data elements within a segment. DoD uses "*" as the delimiter.

Data Element Type

A data element may be one of six types: numeric, decimal, identifier, string, date, or time.

Delimiters

Two levels of separators and a terminator. The delimiters are an integral part of the transferred data stream. They are specified in the interchange header and may not be used in a data element value elsewhere in the interchange. From highest to lowest level, the separators and terminator are segment terminator and data element separator.

DISA

Data Interchange Standards Association. A nonprofit organization funded by ASC X12 members to serve as the Secretariat for X12.

DSTU

Draft Standard for Trial Use. It represents a document approved for publication by the full X12 committee following membership consensus and subsequent resolution of negative votes. (Final Report of X12 Publications Task Group). The Draft EDI Standard for Trial Use document represents an ASC X12 approved standard for use prior to approval by ANSI. See ANSI Standard.

EDI

Electronic data interchange. The computer-application-to-computer-application exchange of business information in a standard format.

Electronic Envelope

Electronic information that binds together a set of transmitted documents being sent from one sender to one receiver.

Element Delimiter

A single-character that follows the segment identifier and separates each data element in a segment except the last.

Functional Group

A group of one or more transaction sets bounded by a functional group header segment and a functional group trailer segment.

Functional Group Segments (GS/GE)

These segments identify a specific functional group of documents such as purchase orders.

Industry Conventions

Defines how the ASC X12 standards are used by the specific industry

Industry Guidelines

Defines the EDI environment for using conventions within an industry. It provides assistance on how to implement X12 standards.

Interchange Control Segments (ISA/IEA)

These segments identify a unique interchange being sent from one sender to one receiver (see electronic envelope).

Interchange Control Structure

The interchange header and trailer segments that envelop one or more functional groups or interchange-related control segments and perform the following functions: (1) defines the data element separators and the data segment terminators, (2) identifies the sender and receiver, (3) provides control information for the interchange, and (4) allows for authorization and security information. (X12.5)

Loop

A group of semantically related segments; these segments may be either bounded or unbounded (X12.6). The N1 loop is an example of a loop, which includes Segments N1 to PER for name and address information.

Mandatory (M)

A data element/segment requirement designator that indicates the presence of a specified data element is required.

Mapping

The process of identifying the standard data element's relationship to application data elements.

Max Use

Specifies the maximum number of times a segment can be used at the location in a transaction set

Message

Entire data stream including the outer envelope

Optional (O)

A data element/segment requirement designator that indicates the presence of a specified data element/segment is at the option of the sending party and can be based on the mutual agreement of the interchange parties.

Qualifier

A data element that identifies or defines a related element, set of elements, or a segment. The qualifier contains a code taken from a list of approved codes.

Repeating Segment

A segment that may be used more than once at a given location in a transaction set. See Max Use.

Security

System screening that denies access to unauthorized users and protects data from unauthorized uses

Segment

Segments consist of logically related data elements in a defined sequence. A data segment consists of a segment identifier, one or more data elements each preceded by an element separator, and a segment terminator.

Segment Directory

Provides the purpose and format of the segments used in the construction of transaction sets. The directory lists each segment by name, purpose, identifier, the contained data elements in the specified order, and the requirement designator for each data element.

Segment Identifier

A unique identifier for a segment, consisting of a combination of two or three upper-case letters and digits. The segment identifier occupies the first-character positions of the segment. It is not a data element. The segment identifier in EDIFACT is a component data element — part of a composite data element consisting of a segment identifier and an explicit looping designator.

Segment Terminator

A unique character appearing at the end of a segment to indicate the termination of the segment, e.g., N/L.

Syntax

The grammar or rules that define the structure of the EDI standards (i.e., the use of loops, qualifiers, etc.). Syntax rules are published in ANSI X12.6.

Transaction Set

A document that unambiguously defines, in the standard syntax, information of business or strategic significance and consists of a header segment, one or more data segments in a specified order, and a trailer segment.

Transaction Set ID

An identifier that uniquely identifies the transaction set. This identifier is the first data element of the transaction set header segment.

Translation

The act of accepting documents in other than standard format and translating them to the standard.

Version/Release

Identifies the publication of the standard being used for the generation or the interpretation of data in the X12 standard format. May be found in the Functional Group Header Segment (GS) and in the Interchange Control Header Segment (ISA). See Control Segment.

VICS Committee

Voluntary Interindustry Communications Standards for EDI.

X12

The ANSI committee responsible for the development and maintenance of standards for EDI.

X12.5

Interchange Control Structure. This standard provides the interchange envelope of a header and trailer for the electronic interchange through a data transmission, and it provides a structure to acknowledge the receipt and processing of this envelope.

X12.6

Application Control Structure. This standard describes the control segments used to envelop loops of data segments, transaction sets, and groups of related transaction sets.

5.2 DoD GLOSSARY

AIS

Automated information systems

DUSD (Logistics)

Deputy Under Secretary of Defense (Logistics)

DES

Data encryption standard

DISA

Defense Information Systems Agency

DLA

Defense Logistics Agency

ISA

Interchange control header identifier

NIST

National Institute of Standards and Technology

NTE

Note identifier

PLUS

Protection of logistics unclassified/sensitive systems

UN/EDIFACT

EDIFACT; electronic data interchange for administration, commerce, and transport

USD (A & T)

Under Secretary of Defense for Acquisition and Technology

REPORT DOCUMENTATION PAGE

Form Approved
OPM No. 0704-0188

Public reporting burden for this collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering, and maintaining the data needed, and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

1. AGENCY USE ONLY (Leave Blank)		2. REPORT DATE Jul 1993	3. REPORT TYPE AND DATES COVERED Final
4. TITLE AND SUBTITLE DoD Draft Electronic Data Interchange (EDI) Convention: ASC X12 Transaction Set 841 Specifications/Technical Information (Furnish) (Version 003030)			5. FUNDING NUMBERS C MDA903-90-C-0006 PE 0902198D
6. AUTHOR(S) Stephen Luster Richard Modrowski			
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) Logistics Management Institute 6400 Goldsboro Road Bethesda, MD 20817-5886			8. PERFORMING ORGANIZATION REPORT NUMBER LMI- PL311LN4
9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES) CALs Evaluation and Integration Office 5203 Leesburg Pike, Skyline 2 - Suite 1609 Falls Church, Virginia 22041			10. SPONSORING/MONITORING AGENCY REPORT NUMBER
11. SUPPLEMENTARY NOTES Prepared in cooperation with Data Interchange Standards Association, the Secretariat and administrative arm of the Accredited Standards Committee X12.			
12a. DISTRIBUTION/AVAILABILITY STATEMENT A: Approved for public release; distribution unlimited			12b. DISTRIBUTION CODE
13. ABSTRACT (Maximum 200 words) This is a draft Electronic Data Interchange (EDI) systems design document that describes the draft standard or "convention" the Department of Defense (DoD) will use to transmit specifications/technical information between Government facilities and between contractor and Government facilities using the ASC X12 Transaction Set 841 Specifications/Technical Information (003030).			
14. SUBJECT TERMS Electronic Data Interchange; EDI; DoD EDI Convention; Electronic Commerce; ANSI X12, X12; electronic standards; electronic business standards; computer-to-computer exchange of data; electronic documents; electronic records; paperless environment; conventions			15. NUMBER OF PAGES 79
			16. PRICE CODE
17. SECURITY CLASSIFICATION OF REPORT Unclassified	18. SECURITY CLASSIFICATION OF THIS PAGE Unclassified	19. SECURITY CLASSIFICATION OF ABSTRACT Unclassified	20. LIMITATION OF ABSTRACT UL